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CUD to BUAL WARTON AS DO SON SUR			
SUBJ: EVALUATION OF BLACK SHI			<i>c7a</i> 0
PROCESSING WAS ACCOMPLISHED A	THE	MISSION CONTAIN	S 1330 2
TITLED FRAMES.			
2. BOTH CAMERAS OPERATED	SATISFACTORILY	THROUGHOUT THE	MISSION.
DIDING OTDATOUT AND A BURG OF		•	

DURING STRAIGHT AND LEVEL FLIGHT, GROUND RESOLUTION (ONE BAR PLUS ONE SPACE) OF 18 INCHES WAS OBTAINED ON IMAGERY NEAR THE VERTICAL. FOR ANALYTICAL PURPOSES, STRAIGHT AND LEVEL FLIGHT IS CONSIDERED AS ANY AREA WHERE THE CAMERA IS UNCAGED AND THE VEHICLE IS WITHIN THE CAMERA STABILIZATION LIMITS IN ROLL AND PITCH. THIS COMPRISES 42 PERCENT OF THE MISSION. IN AREAS OF COORDINATED TURNS AND VEHICLE MANEUVERING, THE IMAGE QUALITY REMAINS GOOD WITH MINIMAL SMEAR DUE TO VEHICLE MOTION. HOWEVER, IN A TURN, APPROXIMATELY 30 DEGREES OF SCAN OF ONE CAMERA IS GENERALLY UNUSABLE DUE TO IMAGING OF THE HORIZON. THE RESOLUTION (ONE BAR PLUS ONE SPACE) AT OBLIQUITY

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ANGLES 30 TO 50 DEGREES (8-18 NAUTICAL MILES LATERAL DISTANCE) IS ESTIMATED TO BE TWO TO THREE FEET. AT THE HIGHEST OBLIQUITY ANGLES OF 50 TO 67 DEGREES (18 TO 30 NAUTICAL MILES LATERAL DISTANCE). RESOLUTION IS ESTIMATED TO BE THREE TO FIVE FEET.

- 3. FRAMES 1-574 ARE EXPOSED AT 1/190 OF A SECOND; FRAMES 5751192 ARE EXPOSED AT 1/210 OF A SECOND; AND FRAMES 1193-1330 ARE
 EXPOSED AT 1/170 OF A SECOND. ALL FRAMES RECEIVED MAXIMUM DEVELOPMENT
 AND THE DIFFERENCE IN EXPOSURE CANNOT BE DETECTED. ALL EXPOSURES
 APPEAR ACCEPTABLE FOR THE EXISTING CONDITIONS (SUN ANGLE,
 REFLECTIVITY, ETC.) UNDER WHICH THE MISSION WAS FLOWN. IN COMPARING
 GROUND AREAS EXPOSED IN THE FORWARD AND AFT CAMERAS AT THE SAME TIME,
 THE AFT FRAMES CONSISTENTLY HAVE HEAVIER DENSITY.
- 4. NO PHOTOGRAPHY IS ACQUIRED DURING THE ASCENDING AND DESCENDING PORTIONS OF THE MISSION. THE UNCORRECTED BAROMETRIC ALTITUDE RANGES BETWEEN 73900 AND 81200 FEET. NO DATA REDUCTION PROBLEMS HAVE BEEN ENCOUNTERED DURING VEHICLE MANEUVERING.
- FRAMES THROUGHOUT THE MISSION, BUT THEY ARE MINIMAL AND NO DEGRADATION IS APPARENT. PLUS DENSITY SPOTS AND ASSOCIATED STREAKS ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. IN EVERY INSTANCE, THE AREA AFFECTED DOES NOT EXCEED 0.25 SQUARE INCH AND APPEARS TO BE AN EXPOSURE OF A FOREIGN SUBSTANCE. FOR EXAMPLE, SEE FRAMES 1058 AND 1062.
- 6. MINOR OVERLAP OF CONSECUTIVE FORWARD/AFT FRAMES IS PRESENT APPROXIMATELY SIX TIMES DURING VEHICLE MANEUVERING. THE OVERLAP DOES NOT EXCEED 1.2 INCHES AND IN ONLY ONE CASE EXCEEDS 0.5 INCH.

 IMAGE DEGRADATION IS APPARENT ONLY IN THE OVERLAPPED, DOUBLE-

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	EXPOSED AREAS. FOR EXAMPL	E SEE FRAMES 279/284 AND I	131/1134. THE
in the second		TO THE AFT FORMAT IN A SMAL	
S	•	DOES NOT EXCEED 0.5 INCH.	
	SEE FRAMES 262, 882, AND	•	
		SENSED V/H ARE USED ON TH	IS MISSION.
	THE IMAGE QUALITY UNDER B	OTH CONDITIONS IS SATISFACT	TORY. THE INS
	· · · · · · · · · · · · · · · · · · ·	INDICATES THAT THE MISSION	
	<u>.</u>	NTIL FRAME 1315. ONLY FIVE	
		D THE END OF THE MISSION (F	
		THE INS TAPE, FILM DATA BL	
		D TIME. THE INS TAPE RECORD	
A+		BLOCK FOR BOTH LATITUDE AN	
	INS TAPE DATA IS NOT AVAIL	LABLE FOR FRAMES 565-573, 1	185-1191, AND
	1325-1329. THESE FRAMES A	RE FROM CAMERA RUNDOWN AFTE	R TURNOFF AND
	ARE CONSIDERED BONUS FRAM	ES.	
	9. A TIME HISTORY OF I	EVENTS AFFECTING THE EXPLOI	TATION OF THE
***	MATERIAL BASED ON ELAPSED	TIME FROM A/C TOUCHDOWN AR	E:
, .	TIME		
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y	02 01 RECEIPT OF INS 1	TRANSMISSION AT	25X ²
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IN. CLOUDS OBSCURE 45 PERCENT OF THE PHOTOGRAPHY. GROUND HAZE IS MINIMAL, AND IN CLOUD FREE AREAS GOOD QUALITY PHOTOGRAPHY IS AVAILABLE THROUGHOUT THE MISSION.

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